

Tsuyama College		Year	2020		Course Title	Electronic and Information Circuits
Course Information						
Course Code	0078		Course Category	Specialized / Elective		
Class Format	Lecture		Credits	Academic Credit: 2		
Department	Department of Integrated Science and Technology Advanced Science Program		Student Grade	4th		
Term	Second Semester		Classes per Week	2		
Textbook and/or Teaching Materials	Digital circuit(CORONA PUBLISHING CO.,LTD.), Electrical and Electronic Circuit Basics (Denkishoin)					
Instructor	NISHIO Kimihiro					
Course Objectives						
Learning purposes : Acquire the ability to analyze circuits handled in the field of electronic information such as digital circuits, and the technology to design the optimum circuit for problems.						
Course Objectives : 1. To understand the basics of digital circuits. 2. To understand how to design counters. 3. To understand the analysis method and design method of circuits handled in the field of electronic information.						
Rubric						
	Excellent	Good	Acceptable	Not acceptable		
Achievement 1	The student can understand and accurately explain the basics of digital circuits.	The student can understand and explain the basics of digital circuits.	The student can almost explain the the basics of digital circuits	The student will not understand and explain the basics of digital circuits.		
Achievement 2	The student can understand and accurately explain the design method of the counter.	The student can understand and explain the design method of the counter.	The student can almost explain the design method of the counter.	The student will not understand and explain the design method of the counter.		
Achievement 3	The student can understand and accurately explain circuit analysis method and design method handled in the electronic information field.	The student can understand and explain circuit analysis method and design method handled in the electronic information field.	The student can almost explain circuit analysis method and design method handled in the electronic information field.	The student will not understand and explain circuit analysis method and design method handled in the electronic information field.		
Assigned Department Objectives						
Teaching Method						
Outline	General or Specialized : Specialized Field of learning : Interdisciplinary subjects Required, Elective, etc. : Elective must complete subjects Foundational academic disciplines : Engineering / Electrical and Electronic Engineering / Electronic Devices / Electronic Equipment Relationship with Educational Objectives : This class is equivalent to "(4) Develop multi-disciplinary ability", "(5) Attain a global perspective and understanding of social development", "(6) Develop problem solving ability" and "(7) Develop communication and presentation abilities". Relationship with JABEE programs : The main goal of learning / education in this class is "(A), A-2". Course outline : Many electronic devices and electrical appliances have been realized by using circuits handled in the field of electronic information such as digital circuits. In this lecture, the student will learn the basic contents of circuits handled in the field of electronic information. The student will also learn how to analyze and design circuits handled in the field of electronic information.					
Style	Course method : Classes will be held in the first semester due to class timetable. Courses are offered in 2 credit hours per week. Classes are centered on the board textbooks. Solve the exercises during class. Students are required to submit reports. Grade evaluation method : Exams (70%) + Report (30%). Examinations will be conducted a total of 2 times, and the evaluation ratios will be the same. Textbooks and notebooks are not allowed into the exam. Retaking exams may be conducted for those with poor grades.					

Notice	<p>Precautions on the enrollment : Students must take this class. This is a "class that requires study outside of class hours". Classes are offered for 15 hours per credit, but 30 credit hours are required in addition to this. Follow the instructions of your instructor for these extra studies.</p>		
	<p>Course advice : Carefully check and understand the meanings and definitions of terms that appear in the textbooks. Solve the examples and the exercises prepared at the end of each chapter and check the contents carefully.</p>		
	<p>Foundational subjects : Fundamentals of Integrated Science and Technology (1st year), Digital Engineering (3rd), Electronic Circuits I (3rd) Related subjects : Electric and Electronic System Engineering Experiments and Practice II (3rd year), Electric and Electronic System Engineering Experiments (4th), Design of Electronic and Information Circuits (5th).</p>		
	<p>Attendance advice : It is recommended that you take notes in order to understand the contents explained in the class. If you do not understand the content of the lesson, ask the teacher. If you are late for the start time, you will be treated as absent after 25 minutes.</p>		

Course Plan

			Theme	Goals
2nd Semester	3rd Quarter	1st	No classes this year	
		2nd		
		3rd		
		4th		
		5th		
		6th		
		7th		
		8th		
	4th Quarter	9th		
		10th		
		11th		
		12th		
		13th		
		14th		
		15th		
		16th		

Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Behavior	Report	Other	Total
Subtotal	70	0	0	0	30	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	70	0	0	0	30	0	100
Cross Area Proficiency	0	0	0	0	0	0	0